What is claimed is:

- 1 1. A method of communicating in a wireless network, comprising:
- 2 pre-allocating, to a packet-switched real-time, interactive communications
- 3 application, resources of at least one node of the wireless network, the pre-allocated resources
- 4 comprising resources normally allocated in response to a call setup request;
- 5 receiving a first call setup request after pre-allocating the resources; and
- 6 establishing, in response to the first call setup request, a packet-switched real-time,
- 7 interactive communications session through the wireless network using the pre-allocated
- 8 resources of the at least one node.
- 1 2. The method of claim 1, wherein pre-allocating the resources comprises pre-allocating
- 2 resources of one of a base transceiver system and base station controller.
- 1 3. The method of claim 1, wherein pre-allocating the resources comprises pre-allocating
- 2 resources of a packet data serving node.
- 1 4. The method of claim 1, wherein pre-allocating the resources comprises pre-allocating
- 2 resources of at least one of a press-to-talk server, voice-over-Internet Protocol server, and a
- 3 call session control function module.
- 1 5. The method of claim 1, wherein pre-allocating the resources further comprises
- 2 allocating a dedicated channel between the at least one node and a second node in the
- 3 wireless network to carry call control packets for the packet-switched real-time, interactive
- 4 communications application.
- 1 6. The method of claim 5, wherein allocating the dedicated channel between the at least
- 2 one node and the second node in the wireless network to carry packets for the packet-
- 3 switched real-time, interactive communications application comprises allocating one of a
- 4 T1/E1 trunk, Ethernet link, and IP route.

WO 2005/094096 PCT/US2005/006854

- 17 -

- 1 7. The method of claim 1, wherein pre-allocating the resources comprises pre-allocating
- 2 binding information of a mobile station, the method further comprising:
- 3 storing the binding information in a base station controller; and
- 4 using the binding information stored in the base station controller for establishing the
- 5 packet-switched real-time, interactive session in response to the first call request.
- 1 8. The method of claim 7, wherein pre-allocating the resources comprises pre-allocating
- 2 user-related information of a mobile station, the method further comprising:
- 3 storing the user-related information in the base station controller; and
- 4 using the user-related information stored in the base station controller for establishing
- 5 the packet-switched real-time, interactive session in response to the first call request.
- 1 9. The method of claim 1, wherein pre-allocating the resources comprises pre-allocating
- 2 binding information of a group of mobile stations, the method further comprising:
- 3 storing the binding information in a base station controller; and
- 4 using the binding information stored in the base station controller for establishing the
- 5 packet-switched real-time, interactive session in response to the first call request.
- 1 10. The method of claim 1, further comprising:
- 2 in response to an event, a management system sending a request to pre-allocate
- 3 resources to the at least one node,
- 4 wherein pre-allocating the resources is performed in response to the request to pre-
- 5 allocate.
- 1 11. The method of claim 10, wherein sending the request to pre-allocate is performed
- 2 during a provisioning process.
- 1 12. The method of claim 1, wherein pre-allocating the resources is performed in response
- 2 to initiation of a mobile station.

9

1	13.	A system comprising:
2		an interface to a communications network; and
3		a controller coupled to the interface to:
4		receive a request to pre-allocate call setup resources in the system to a packet
5	switch	ed real-time, interactive application;
6		in response to the request, pre-allocate the call setup resources in the system;
7		receive a call setup request after pre-allocating the call setup resources; and
8		in response to the call setup request, set up a packet-switched real-time,

- 1 14. The system of claim 13, wherein the pre-allocated call setup resources include at least one of hardware, software, and communications elements of the system, wherein the pre-
- 3 allocated call setup resources enable avoidance of allocating the pre-allocated call setup

interactive communications session using the pre-allocated call setup resources.

- 4 resources during a call setup procedure in response to the call setup request.
- 1 15. The system of claim 13, wherein the pre-allocated call setup resources include at least
- 2 one of user-related information, binding information, and mobility information, the system
- 3 further comprising a storage to store the at least one of user-related information, binding
- 4 information, and mobility information,
- the controller to set up the packet-switched real-time, interactive communications session in response to the call request using the at least one of the user-related information, binding information, and mobility information.
- 1 16. The system of claim 13, wherein the pre-allocated call setup resources further
- 2 comprise a dedicated channel between the system and another node in a wireless network.
- 1 17. The system of claim 13, comprising one of a base transceiver system, base station
- 2 controller, and packet data serving node of a wireless network.
- 1 18. The system of claim 13, wherein the packet-switched real-time, interactive application
- 2 comprises at least one of a press-to-talk application, voice-over-Internet Protocol application,
- 3 text chat application, and instant messaging application.

WO 2005/094096 PCT/US2005/006854

- 19 -

- 1 19. An article comprising at least one storage medium containing instructions that when executed cause a system to:
- receive a request to pre-allocate resources for a packet-switched real-time, interactive application, the pre-allocated resources normally allocated during a call setup procedure, wherein the pre-allocated resources enable avoidance of allocating the resources during a call
- in response to the request, pre-allocate the resources and store information pertaining to the pre-allocated resources in a storage; and
- 9 subsequent to pre-allocating the resources, process a call setup request using the pre-10 allocated resources.
- 1 20. The article of claim 19, wherein the pre-allocated resources include at least one of
- 2 user-related information, binding information, and mobility information, wherein the system
- 3 comprises a base station controller having the storage to store the at least one of the user-
- 4 related information, binding information, and mobility information.

6

setup procedure;